

Name: \_\_\_\_\_

**Science Air Quality L.S. 5.3**

Read Pages 269 – 272 and fill in the chart below

Using Electricity to remove particulate matter	Mechanical Filters	Using water to remove pollutants from air
Explain the process:	Explain the process:	Explain the process:
Examples where it is used in real life:	Examples where it is used in real life:	Examples where it is used in real life:
Illustration of how it works:		

## Stop and Think

1. What happens to pollutant gases in the wet scrubber?

Why does this happen?

2. What do you think happens to particulate matter in a wet scrubber?

Why does this happen?

3. If you were to install a wet scrubber on a coal-burning furnace, at what step in the process would you install the scrubber to clean the pollutants out of the air?

## Reflect

1. What kind of pollutants does each method reduce?
2. Why do you think so many different kinds of pollution-control methods are needed?
3. If you wanted to get the air as clean as possible, how would you do it?
4. Why do you think car manufacturers and power plant operators might not always want to clean the air as much as they are required to by government regulations?
5. Why do you think it might take so long to pass laws that require industries to remove pollutants before they enter the air?

## What is the point?

Knowing the importance to clean air, why don't manufacturers want to improve the air they put out into the environment?